

2010 TRAC Bridge Competition Checklist 7th and 8th Grade Drawbridge Competition

Please use this checklist to avoid common mistakes that lead to disqualifications. This list is not all-inclusive and is not a substitute for the official competition rules. Please refer to the official competition rules provided in your bridge kit for a complete explanation of all eligibility requirements and design specifications.

- ☐ The balsa wood used to construct each drawbridge must be only *ONE LAYER* thick. At the joints, the balsa wood bridge may need to be more than one layer thick. These joints may not be any more than 1/8-inch thick. The length of the double layer at the joint may not exceed 1 inch in length.
- ☐ Lamination is not permitted.
- ☐ The materials provided are the **ONLY** materials to be used when building the bridges. The use of additional material is permitted for decorations or visual aids.
- ☐ Maximum clearance underneath the bridge may be no more than 2 inches when the bridge is in the closed position.
- ☐ A block of wood 2 inches wide by 4 inches tall must be able to pass under the bridge while the bridge is open.
- ☐ A car that is 2 inches wide by 1 inch tall must be able to drive across the bridge while the bridge is closed.
- ☐ Bridge will be tested for strength-to-weight ratio.
- ☐ Length of the bridge must be 15 inches.
- ☐ Drawbridge must have supports suitable for placement on Pitsco di2000. Please see picture of Pitsco tester on page 4 of the competition rules.

StructureTester (<http://catalog.pitsco.com/store/detail.aspx?ID=2557&bhcp=1>). For additional information on the tester, visit www.pitsco.com.

- ☐ The moveable span must be a minimum of 12 inches.
- ☐ The height of the bridge cannot exceed 12 inches.
- ☐ The vertical supports of the Pitsco di2000 will be placed 13 inches apart on center.
- ☐ No part of the drawbridge can make contact with any part of the Pitsco di2000 Bridge Tester that is located between the vertical supports of the Pitsco di2000.